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# **USSR** Report

AGRICULTURE

No. 1221



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This serial report contains information on agricultural policy and trends at the all-union and republic levels including data on investments and plan fulfillment; major crop, livestock, and feed procurement statistics; processing and storage of key crops; production and availability of agricultural machiners; and the application of new technology to agriculture. Selective data on oblast/kray/ASSR levels are also provided. Weather data are included when they have a bearing on the quantity and quality of key crops.

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Agriculture

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## 14 March 1980

# USSR REPORT

## AGRICULTURE

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#### MAJOR CROF PROGRESS AND WEATHER REPORTING

MAKSIMENKOVA REPORTS GRAINER, CROP CONDITION 19. FARLY FEBRUARY

LD29101) Moncow SEL'SKAYA ZHIZN' in Russian 15 Feb 80 p 2 LD

[Report by Agrometeorologist T. Makaimenkova under the rubric: "The USSE Hydrometeorological Center Reports": "The Weather and the Crops"]

Test Over most of our country's European territory the first 10 days of February were warm for the time of year. It was particularly warm at the beginning of February when the daytime air temperature rose above zero almost everywhere. In connection with this, measures were taken in Krasnodarskiy Kray to top-dress winter grain crops. The temperature subsequently fell. Between 5 and 7 February the temperature fell to between minus 23 and minus 26 degrees in the middle and lower Voiga areas and to minus 32 in machitrakaya ASSR.

North of a line joining Kaliningrad, Mogilev, Chernigov, Sumy, Kharkov, Selgorod, Voronezh, Ryazan, Gorkiy, Kazan and Perm, winter grain crops and perennial grasses were safely under 20-50 cm of anow; 55-65 cm in the north-cast. The minimum soil temperature at tillering node depth stayed within the range of Simus 2-minus 5 degrees.

An intensive warm spell in the southern part of the European territory led to a swindling of the souw cover. On 10 February the fields were snowfree in southern Moldavia, some western areas of the Ukraine, in Krymskaya, Khersonskaya and Nikolayevskaya chlasts, in most of Odesskaya and Zaperozhokaya chlasts and Krasnodarskiy and Stavropolskiy Krays and in the southern lower Volga area. But warm, Inau-type weather was predominant here and there was no threat of damage to winter grain crops or perennial grasses.

In eastern Vologodskaya and Kostromskaya oblasts, northern Gorkovskaya Oblast and most parts of Kirovskaya and Permskaya oblasts, where the snow is 55-65 cm deep and the soil is frozen to a depth of less than 50 cm, the soil temperature at tillering node depth kept within the range of minus 2-minus 4 degrees. The plants continued to consumer nutrients in order to breathe.

The weather remained cold without significant precipitation in the farming regions of west Siberia. The average temperature in most areas was below cormal, by 8-9 degrees in places. The minimum temperature kept within the

range of minus 26-minus 14 degrees. Winter grain crops and granges were well protected by an adequate covering of snow and the minimum soil temperature at tillering node depth kept within the range of minus 9-minus 11.

The weather was colder than might be expected in the central Asian republics. For the greater part of the first 10 days of February winter grain crops and perennial grasses were defmant. They were enduring the winter well. Winter crops resumed vegetation in Azerbaijan and Tadehikistan on occasional days when the temperature rose to 9-14 degrees.

CSO: 1824

#### MAJOR CROF PROGRESS AND WEATHER REPORTER.

MIN-FEBRUARY SOVIET WEATHER, CROT DEVELOPMENT REVIEWED

LD270849 Moncow SEL'SEAVA ZHIZN' in Russian 74 Feb 80 p 3 LD

[Report by Agricultural Meteorologist T. Maksimenkova under the rubfic: "USBR Hydrometeorological Center Reporting": "Weather and Crops"]

[Text] Cold weather prevailed over most of the USSR's European territory in the period 11-20 February. In the Baltic republics, Belorussia, northwestern oblasts of the RSFSR, the southwestern half of the central region, the central Chernozen cone, the lower Volga region, most oblasts in the Extraine and the northern half of the north Gaucasus average air temperatures in the period were 3-7, and in places 8-9, degrees below normal.

Despite the severe frosts minimum soil temperatures at the tillering mode depth of winter grain crops and perennial grasses remained between minus 3 and minus 8 degrees since north of a line joining Grodno, Minak, Magilev, Chernigov, Poltava, Rossosh (Voronezhskaya Oblast), Rostov-on-Domu and Volgograd winter grain crops were safely covered with a layer of snow 15-30 on deep or even more.

The depth of the snow cover over most of the Ukraine was only shallow (less than 10 cm). In Odesskaya, Nikolayevskaya and Khersonskaya oblasts and a number of other rayons in Zaporozhskaya and Krymskaya oblasts the fields were free of snow. Soil temperatures at the tillering node depth of winter grain crops and grasses revained within the optimum range (between minus 7 and minus 9 degrees).

It was warmer in west Siberia's farming regions. Average air temperatures in the period were 1-3, and in places 4-8, degrees above normal in most parts. West Siberian winter grain crops and grasses were under a layer of snow 20-35 cm Neep, and in places more than 35 cm deep.

Winter grain crops and perennial grasses wintered well.

The weather was unsettled in the central Asian republics. At the beginning of the period it was warm. On these days winter grain crops resumed vegetation. Then there was a cold spell.

MALION CROSS PROMARES AND MEATHER REPORTED

#### SERVICEME SLOW SAIL TRAFFIC IS SARATON AREA

Rescow GUDON in Russian 25 Jan 60 p 1

[Article: "Fighting the Snov"]

[Text] Yershov-A northwest wird suddenly swept along sections of the Yershov bivision and the blizzard began to rage. It did not let up for the rest of the day and all night. And at morning of the following day a heavy frost struck.

The elements did not catch us unawares," recounts the head of the Yershov Division, V. Ogurtsov: "Operational groups were set up at the rail junctions of Yershov, Krasniy Kut, Pugachevek, and Urbakh, while all three snow-removal machines were put into action. On the Krasniy Kut.—Aleksandrov Gai section—a snow-remover plied the drifts like a skiff. Wind gusts reached 20 meters a second. The snow, like a white shroud, covered everything in sight, but the trains moved strictly according to schedule. At the inner-line and outlying junction points we received and dispatched trains on strict notice."

Many SN-2 [enow-removal machine] crews comported themsleves very well. The chief of the mechanical repair shops of the Yershov Rail Division, Yu. Koleanikov, headed up the work of one of the machines and for each them 24 hours did not leave the cab of the snow-remover. In the intervals between unloading runs he dashed into the station for a minute or two to grab a bite to eat.

Twelve hours after the end of the snow storm all incoming train tracks to the Vershov station had been cleared of snow. This was achieved thanks to the skillful actions of the crew of maintenance engineer, K. Tsurikov, and the sork team of V. Marchenko. The air-powered snow-blower operated flavlessly.

Branch besignarters, in the struggle against the snow drifts, took pains to see that in all stations, depots, and rail divisions (in all, over a thousand railroad workers took part in the operation) there were heated comfort stations open and not means available.

Unfortunately, communities in the northern sections of the Voiga area, there was a malfunction in rail service. Due to the switches not working properly at the Saratov junction stations, the city's electric train system was knocked off its schedule, and trains were delayed in reaving Sennaya.

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#### MRIEFS

causing violent flooding, fell in many regions of Western Europe and the fareful of the warm of the supposed to be.

And, then suddenly the warmth was replaced by a sharp cold snap. Hoovy enow, causing violent flooding, fell in many regions of Western Europe and the fareful in many regions of Western Europe and the fareful in many regions of Western Europe and the fareful in many regions of Western Europe and the fareful in many regions of Western Europe and the fareful in many regions of Western Europe and the fareful in many regions of Western Europe and the fareful in many regions of Western Europe and the fareful cover Scandinavia. In past months, warm air from the Atlantic and Pacific Oceans was frequently pushed by a series of cyclones into the Arctic, and there determined the warm weather. [Excerpts] [Moscow SOTSIALISTICHESKAYA INDUSTRIYA in Russian 1 Jan 80 p 4] 9481

PUTENTIAL WIND-POWER SITES—A survey of the violent winds which constantly blow in the area between take Balkhash and the Kengir River was carried out by an expedition from the scientific-industrial association, "Kazsel'hhorsekhanizatiya" [Kazakh Agrosechanization]. It has found, in this vast area, prospective sites for the practical exploitation of free energy from air currents. The most promising in terms of wind potential turned out to be the northern Balkhash region. Here, in the course of a year, the winds are capable of driving electric-power devices for almost 5,500 hours. Extensive duration of productive wind speed was also recorded in the Sayak and Zhanaark areas. This provides the possibility here for employing wind-powered devices to reach underground water supplies which lie under pastures at a depth of several tens of meters. [Text] [Moscov TRUD in Russian 23 Jan 80 p 4] 9481

SIBERIAN FERTILIZER-Novosibirsk, Jan 22-The siberian field is very responsive to fertilizer. Progressive kolkhozes and sovkhozes apply it yearly to grain, interrow and vegetable crops. Even now, at the harvest of the final year of the five-year plan, about 3 million tons of local fertilizers have been supplied to Novosibirsk fields. These operations are actively conducted on farms of the Kulandins, aya zone. On kelkhozes and sovkhozes in Kerasukskiy Mayon, for example, 105,000 tons of organic fertilizers has been hauled to the fields; in Krasnozerskiy Mayon 102,000 tons. In Chulymskiy Mayon, 133,000 tons of them have been put in storage. [Text] [Moscow SEL'SKAYA ZHIZN' in Russian 23 Jan 80 p 1] 9481

to employing that of had ped. James of deim a section of the first fantaced with consults of the second lay have made and consults of the second to accordate to the fantace and arithmetic for actions. The consultation and the consultation are the consultation at the consultation and the consultation are the consultation and the consultation and the consultation are the consultation and the consultation and the consultation are the consultation and the consultation and the consultation are the consultation and the consultation and the consultation are the consultation and the consultation and the consultation are the consultation and the consultation and the consultation are the consultation and the consultation are the consultation and the consultation are the consultation and the consultation and the consultation are the consultation and the consultation and the consultation are the consultation and the consultation and the consultation are the consultation and the consultation and the consultation are the consultation and the consultation and the consultation are the consultation an

The importance of the entrantity from the united in the black been are its inquirement for tentrality from the united in the near the temperature for it is degreed. Even as early as Pebruar - conditions can be rester in the perature. Therefore, maintenance engineers are officially for the color of the work. Orath growers of Commences Object? Know the value of the work. Orath growers of Commences Object? Know the value of the work in the cold and only grain and touch crops within the cold in the soil and only grain and touch crops within the cold in the cold and only grain and touch directed not only the cold in the cold into the painty of repair work have anothing comment in the first the control [Boscow bill bilds.] By success of the control of

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#### LIVESTOCK PEED PHOCURPHENT

#### INCREASING REEF PRODUCTION WITH SUGAR-INDUSTRY MASTES

Kiev Sil'S'Ki ViSTI to Ukrainian 22 Jan 60 p 2

[Article by V. Kurnyak, manager of the interholibus Department on Heat Production, Object Agricultural Administration, Vinnitokeya Object: "Meat complexes Attached to Sugar Refineries"

[Text] interfare neat cattle for expense enterprises in our oblast fulfill on important role in the successful accessissment of the planed production and east to the state of enat, were toward beet. Last year they provided for an aimset 50-thousand quivia: encrease in beet.

These enterprises are active in 19 rayons. They were torond in place of lattening centers attached to sugar refineries. These had little potential and were, therefore, consolidated in a number of places where there were two or three. As a result, the service and administrative personnel was reduced considerably, expenses were centralized, and transportation, the physical plant and capital investment are being utilized more effectively. The rebuilding permitted also considerable improvement in technology.

This was I years ago. In this comparatively abort time new feeding complemes were built on 12 interfarm enterprises to feed elaultaneously 7,000 heads of cattle. Subsidiary and living quarters were put in order, as well as aixed feed warehouses, pulp pits for 240 thousand tons and feed warehouses.

in their economic-financial activities, these enterprises follow rules on interfere lattening enterprises, approved by the oblast holihox soviet and agreements with holihoxes on supplying cattle for lattening. Production consolidation in order to utilize more rationally the sugar industry waste is the basis for this cooperation. Pulp and solands are, of course, difficult to transport and holihox distance from the refiserion is considerable. This led to unnecessary transport expenses, lowering of nutrition value and than increase in feed costs. Calculations have about that to transport a quintal of feed units of pulp and solances, farms spent I times or more than interfere enterprises. Now 80 percent of the pulp is sent through special pipelines.

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The right commercy union administration continuously supervises the cooperator will five two to flow to filliament of the good to the increase of small productions. The many amounts in atomic squipping the lago with codeen of qualified specialists, and the remaining of an appropriate supervision for the antiquity of position of the antiquity.

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we have an appointuality to denote each production already in the lith fiveyear lane. This setter among he completed, though, without continuous
ittention one the concrete help of local coviet and form organs. In particular,
the teamer tarm frice collective areas to have apass assigned for form
tourisdings one to comprise this for the animals. Unfortunately, this problem
is not not entry everywhere. The rayer comment unions lare openialized
vertices for transporting fund seates. There is not enough suchingry and
equipment therein treatment of local wastes and form exchanization.

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#### HRIEFT

100 Il CARAKUL REGION--Ashkusted. As los orun' has locked in the pasturecambo i the republic's tarres' & Sakus-treeding rayon, the Kunnkinskiy.
The livestoom have been transferred to per confinement. As alequate
incurance recerve of course forigg, hay and concentrates has been
created in the republic. Text Receive This in Runnian 3s day 60 p a
course

TARE IN CAUGASUS .- This fall is the alpine gone of Orbavekly Rayon in the foresto, or alpine and subsipine seatons, large hornel animin began to appear union hitherto had not realded here. The residents core lost in conjectures, but some everything was explained; it turns out that yake were brought here, the minting of which is strictly pronintted. "Take in the Gaussaus" in Dahavekiy Rayon" This is the quention and trease to onle quotechnician of the administration of sericulture of South Osetia, M. Vallyev. "Yes, yaks," confirmed Murat Sem eyevint. "Recently they core prought here from the Kingle MR. In Demovaki) Hayon, just an in certain other places in the oblight, from year to year large eases of high alpine pastures with a rich grane stant remain unutilised. Due to the severe climate the livestock grass on these canto for a very shor' time. Some of the pasture land gliacen' to the same of enlies snow are not used at al. for pasturing demesticated livestock. Take by their very nature core created for life unter high sountain confitteen. It our country they are raised in the countain regions of Central Asia and in Checheno-Insumedia. This half will entage in distinguished by exceptions. hardiness, simplicity, and great adaptability to high countain conditions. Take are on a pasture regime year-round, they do not require housing of prominements of faiter, except for an insurance reserve in the case of a severe wither. In the cunner the yake go up to the some of sterna answ and crase or the slopes of mountains not accessible to desertionted, livestock. In the einter they descent, preferring the coutners olopes of the countains. They reach the feel even with a anow cover of IN-17 centimeters, trave, easily through the mountains. They have strong norves, and or the outton part there is a horseshoethapel projection make out of a strong horny substance, with the ald of which they hold on firmly to steep alopes. The female has one calf per year, and calving is from farm to tay. Despite the fact that it ecoure under the open sky and with unstable weather, the newhorn calvee early withstand the low temperatures, wints and even show storm. The state taken the rain from the farm seconding to purchase price as for agtive, and it comes out to 30-40 rubbes per quintal of walst est. The rate are not in danger free welves and other predators. They know how to protect themselves from these." "How are the pain doing in the new location" "Breeziestry. It can already be said that the disagn of Ports but to the and they are not longing at all for their native longing. Liters Totilian Raffa Vortes in Russian to be 20 P 4 1090F

el Milla is. a di esta Carpatanna assi i the facility of the street from the street, the tappe as within our II III was the of the master. The green stated in the mention was really regardather caretyne, state: the Mosta our only work the left portawith a page times tall from morning to sight. I the presents. or if to the males progranters pot ten may maryenter they stacked the inch of the har har age to the transfer However as a white the lare at the nervatages ASIR for true fully provided toespolyes with course folders, pe mintenance com MU, UUI had of cattle, and is the sheeps arts therein almost a million meep. The responsibility of the animal breaters for the tempile of this live stock in great. We can understands there is the course former, and there was a drought. But, for example, why le a rep. in covered everymere with forest, is conferent as a measured out in maker tenen for the feed catton, and then not everywhere! Dozane of times procurement entablishments, and the Labouration Association at 1th own cutting areas bury tens of conference nection along with other wanter A rear age is Chorinakis Rayon a special shop for production of the state of th requilit Ministry of Arriculture, the shop to closed They may that the and is produced was much too expensive. But now can the sent of the residen to prought up to the cost of grain concentrates if the enterprise in located in the forest and uses free unstead? In the ministry they but onrus their annulters. ... The last of organization in the wintering prorelieve to inherent to many farms and rayons. Hence we have the low profurtivity of public animal bunbanity. The alik yield at the farm have improved, and it is unnecessary to talk accus weight gains of the livetida. The reputit has not fulfilled the amount plans for deliveries of alle and emat. Under our complicated conditions if in intulerapie to firem about the needs of the people working on the farm. However it the stores of the communer's cooperatives, or the mobile enops, you cannot his greate that are in very wide use. But yet not so long are at a meeting of the nurse of the party object consistee, representatives of Burkospnaval Daton of Gensumer Cooperatives gave the assurance that train nervices are emering the needs. The established situation can be corrected wider one conditions it is necessary everywhere to increase control over the mura of wintering, more atrictly to hold the seniors of rayons, with acromic collected, and specialists responsible for each case of ala-Shearent, and to help the fare workers to appanion offeetive competition. for estaining the best results, [Recerpts | Monoon PRAVDA in Massian - an 60 p 17 1000m

Hard the large farm in the object. Here the period of fattening the livest on man teer reduced to four months. L'ver anima breater decided to the farm with the highest return. Scientists are heaping there in this Beveloped wintly with them and the optimal attracture of the letter land, and recommendations for use of concentrates, mineral additional decided to the latter and the concentrates, mineral additional decided to the latter of the greater of young stoom, memorally the lacilities where some stoom increases the number of livestock, less than the second stoom and the support of the second stoom.

TARRED PURDED FORDLAN - Independent Obeset, Turken Mit. A Pine it anting treesling for the stight or a whole has been matel. In comparison with land road, for instance, the volume of alik procurements was increased to one that will tone, the amount of livestock and poulty turned over on I terr core that provides to the plat, and alcome a dillier were one store the plan core protuced. Farm of Il'yalimskiy and Leninskiy raying all main , posteration contribution this later victors . The anishooms, having markely strengthened their foolier base, pursual the construction of majory monantant farm, and rejuvenation of the hors. However for from all the remerver have been athausted. The chief one of these to the small ty of foliar preparation. In the past year there sere gruns simulation of technology is allege making at many farms of the object. For this very reason 1,000 tons of dilage were considered congrude. Moreevery or was established by the oblight people's control countities, the managers of certain farm and upwarin distortions in the reports. Thus. inflated in Tel'manaki, Rayon were WW tom of silege, 152 tome of 'Anylogo and AZ, tors of course foliate. Facts of acception were detected to the fare of Malininskiy, Takhtinskiy, Munya-Urgenshakiy and certain they gayone. It is not hard to imprine the position is which the public used would be there I' the winter to draw out. It to necessary immitatory " promue folder in those covers and ocients where there are nurpluses. It in attil not too late to correct the mitter. And those per took part It the deception should be published with string measures. [Recept] Minoru THE to Bushlar. It dan & p 2" 10900

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PROBLEMS WITH LIVESTOCK PRODUCTION RPVICIONEY

Almo-Ac. SEL'SEUY? KHOZYAYSTVO KAZAKBETANA IN RUSSIGN No. 11, Nov. 79 pp 2-3

:Edity Lat "Perotetently increase the Efficiency of Livestoce Raising".

lose to se at a gutuen in fields of coutnors and coutnesstern oblasto to remailing but winter has already once t lavestock farms and one-Logen of central and northern objects, duty, wet weather has forced livestide mainors in these source to change over to indoor winter mainte-ter tooon, out to relears, and minhealds. There to my job-up here these days, or a simule. The less processing those have begun speration. we are action f door still presegnates in the animal rations, sany enterior are and giving I' to the enimals after prolicinary processing in order to increase (mistability, Stocks accumulated by feed procurement workers in the not supporting the in reserve. One should consider that the enterty of enterprises (which have been able told as gover before to still so feverable spectualities for promiting adequate fees atmost are casing wise use ! whe' they have produced, are raising livestock productiette to mos levels, are increasing nero numbers and are compensating for the shortfall, il seat and silk to precessor months.

After widely accompling contailed competition under the siegan "one and me-noted to the years' supply of feet for each farmi", 'he workers of many enterprises have non-rably failfilled their escalist obligations for recurrence to may and other feeds for public action. They are persistently accomplished the tase assigned by the 25th CPSU extress and its subsequent Central Counties Pienuse of increasing apparent on forms and complexes to the uterst.

the war. Institute .. 5: million poods of from for the Motherland.

non-teny on hundreds of karakhatan soveness and a like two nave successfully fulfille the plan for supplying feed to live two farms. Alsost

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for example, by of her michiger on a library had processed it dillion to the two of the to man our their was tirms to the two plants on the parties of the process of the p

or map element remorter, the enterprises of analysisted theres in a 77 tens on an impression of a second and a second and a second and a second and a second a second

Problings has been produced this year than in previous years. Republic sylvenges on a language save stocked Laguar tone of milege, including 1,715 ton. in hustanaysways wheat, 1,200 tone in Teelihogradakays Ubiast and 2,000 tone in lokebetavakays Ubiast.

Maintaining feet supplies combined with officient and capable feeding has resulted in reaching the dign obtailed genic set by livestock workers at many enterprises. Thus a lientives of the "Presnugar towardy" Southers (Austenayanay Object), the Southers teen Newscaper "Pravis" (Ural anaya Giant), the Southers isent dand bart, Congress (Thimtentaraya Object) and several there, all of when one out about in first mis-earth socialist competition for their regions, are continuing to increase seat and allk supplies to the state. Farms have segun their winter calatonance here with it is years' supply I hap, hayings and herbacetic seal. Southers were called a translating instribute covered tens I quality hay see day—cough for all cattle and their livest on at the covered so. Anch of these enterprises has seed annually.

or purma has arrest reported by, 1, 1979) that putting livestock rateing on an industrial basis, secentration and enocialisation in production
and improved feeding nave and allowed the "Pressager knownly" Southes, the
south to for eatth during summer. The first such lot, at the "Pressager"
many switching for 1,000 here of cattle, was completed more than 7 years ago.
It is divided int sections, each containing about 200 maios. At each lot,
a trigger— hordered feed about 1,000 or earn head annually; they attain
approximate 1,100-1,200 quintain of weight pain. Inputs per quintal of
gain are 1,2-1, man-nears and -- feed units. The cout per quintal of gain
has been found to be 859.77.

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results in marker increases of sater productivity and produc-

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often greater effectivement is passed livest or stinu up improvement of product quality and eithout the interest of production. Therefore, it is not express canapara and specialists to improve steading of enterprise canapara and specialists to improve steading of enterprise canapara and specialists to improve steading the state of the control of the

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#### CHALL FOR FINISHING PIVE YEAR PLAN CITED

HOSENS PRONUNTRA SEL'ERODO KNUZTATETVA IN RUSSIAN NO 1, Jan 80 pp 3-8

(Article: "On the Edge of 1980")

'Yest The concluding year of the 10th Five-Year Plan, 1980, has artived.

The meat four years of the five-year plan were years of atrenuous, solfless tabor to agricultural workers which marked the new achievements in carrying out in gractice the agrarian policies of the occurrent party.

In accordance with the resolutions of the 25th CPSI Congress and the July (1978) Plenus of the CC CPSt for 1976-1976, a strengthening of the material and technical halis of agriculture has taken place branches have been equipped with more highly efficient tractors, vehicles, machinery and supplies of diseral fertilizers; herbicides, and other resources have been increased. During the four years of the 10th five-Year Plan, energy capacity in agriculture grey by 13 percent compared with 1975. Basic production funds of the branches have increased by 26 percent and ourrently amount to more than 20% billion rubles. During 1976-1978, 2.4 million hectares of drained (including renovated) land were brought into use on bulkhozes and southeres. The planned program for transforming the annoherance region to progressing successfully. The everage annual volume of gross agricultural output during the elapsed years of the 10th Pive-Year Plan gree by 10 percent compared with the 9th. The average annual harvest of grain and the production and purchase of raw cotton, suger beets, fruits and berries, tea, vegetables, and other agricultural produce have increased.

"Changes in the rural area, the parts's energy and will, and the valiant labor of the people," noted Comrade I. I. Breshney at the November (1979) Plenum of the C. CPSC, "has made it possible to achieve an average annual gross between of up to 200 million ton of grain during the four years, which is almost 27 million more than in the 9th Pive-Year Plan. Even in the present and very difficult year, 170 million tons of grain have been harvested

series a control of the series to the first dillition made of grain consecution of the lates of transpared thing only , and prote to the state added a significant contributions Alleria, terminal short, and I very case of Blacks, and a mamber of other I live anti- remobility and oblasto auressfully coped with the grain in the dank the agricultural workers of the Deletuesian and Astonian on the grobava, Loningtadasaya, Bulugudasaya and a number of tial to sixed a high pervect of outstoop and outcoolidly tul filled the the for colling it to the state. The kulthores and sevenore Il see hal an SSE as ampliated the nativest in an organized manner . Jean I - righter commitment for colling the controlling factor grain, race cre or regota les, gouth rops, potatos and tes, by and large, the the as diffilled throughout the country for the purchase of raw interpretation and the state of the state of the products

that to a significant extent, occupie weather condition to condition to condition to condition to condition to condition to condition the condition of the RSFSR, the Unrainteen and condition of the country, as well that first during the winter of 1976-197 in a significant area of the country brought executantial lesses in grain and the posture occupies. This affected the development of

need conditions. As a result of a chart decline in feed conditions. As a result of a chart decline in feed to a chart decline in the state of production in the state of how and poultry was reduced by 3.

In the state of cattle and poultry was reduced by 3.

In the state of 1976 compared with 1975. The current five a compared with 1975, and reduction in the production volume of all state in a consider product. Compared with 1975, meat resolution in all the compared weight); will by 1.1 million and care and weight by 32,000 tons

trought have been eliminated thanks to a great

I no the government in the material and technical equip

of the the efforts of kolumentum, exchangements with a constant and agriculture organ wereers. The

in all mineral reduction has alread been attained in 1977

and or a 1970. During the stapped four years of the five
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seeping with the resolutions of the July (1976)

the transfer data, the average annual production of mea-

tate putchases of the stated sinds of products increased

to become (1979) Cr. (PSI Piene onlined no boundaries for the further town toposes of our economy. The Cr. (PSI Piene and the second session 1 to supreme borster of the USBS discussed the projects of the State Fiar for the Economic and Social Development of the USSS and the USSS tall builded for 1980. Corresponding resolutions and laws were adopted

The state plan for the countr's economic and social development for 198 stipulates a further development of the agrarian sector of the economy Sees II billion rubics of the state and bolkhores are being channelled to those spain

The following amounts of agricultural equipment stocks, transport equipment, and other vehicles for villages were outlined tractors, 144,000 and a grain combines, 117,600 units trucks, 270,000 units, agricultural vehicles, 5.9% billion rubles worth, including 2.2% billion rubles worth at vehicles for cattle breeding and feed production. In this case, the 1976-1986 five year plan for the procurement of the stated equipment will be fulfilled primarily because of some overfulfillment of tasks in provious years.

to beginning of the 11th five-year plan, the tractor fleet to agriulture will assume to 2,720,000 units versus 2,336,000 in 1979; grain committees, 7%,000 units versus 680,000; trucks, 1,890,000 versus 1,626,000.

ther machine building ministries to take measures in 1980 directed at increasing the production of powerful tractors of the type E-700, T-100, 2-100, and T-150, and to create the necessary capacity for producing sign output fodder ingreesting machinery and machinery for cultivating and harvesting vegetables, fruits, and other agricultural crops and for applying mineral and organic fertilizers.

Fulfillment of the goals of the 10th Five-Year Plan for agricultural development and for growth in the production of agricultural products depend in significant measure or realizing chemical and amplioration measures. During the five years, holkhores and southeres will be supalled with about 400 million tone of mineral tertilizers, almost 100 million tone more than in the 6th Five-Year Plan. Agriculture will resolve an allion tone of these fertilizers in 1980 (which will count to I. quistais for each hertare of plowed field) and 512,000 tons of chemical agent for plant protection, including 23,,000 tons of herbicides. According to the norm approved in the lifth Five-Year Plan, for each ton at mineral fertilizer applied, an increase of grain in the amount of in ton in achieved of feed, 1.3-1.5 tons of feed units, sugar beets, tions, of . The highest effectiveness in the use of mineral fertilizers is an ineven on irrigated lands and in regions of adequate moisture such as the nonchernozen rose of the SSFSR, the Saltic republics, and the Belerusetan 388

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trick the battle against lettiliet leases entruit the factors to the problem to the and the state of the chemical industry transports in, and the box seed himselfings Association, which has been created itself the the line of Agriculture organization, as well as local trick of agriculture organization, as well as local trick of agriculture, and constructed or an agriculture organization.

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trained lands, end about 1, No. 100 oct are of floridaded to the brought into use in 100.

nent of land tupervenent, it is necessary how a serious to improve the utilization of improved land lasts the tap which was been permitted in their exemuti devotes a seathle to accept the primarily by improving the operational serious and interior organizations, its construction on the last interior and and interior for production and constitution of the last interior.

results estually attained during the past four vests of the und the plan for the economic and outled development; where was approved by a sension of the USSE bustoms beviet, grain in the amount of 255 million tone to projected, for all in terms ought beets, 90, million tone, vegetables, for tone; fruits and berries, 10 million tone, and grapes,

integranned must production (dresped weight) in the 19th Five is compared att the pth Five test flan, rest to increase a con-

timeth to grain production, it is necessary to paratter to managed the fulfillment of linear plane for purchases of corn, bureaused, willet, and tope The provision of high quality raw cotton and an all-out the fiber cotton aught to be the main concern of all the city of the grower.

the providing the providing the population with the appeal of the appeal of the population with the appeal of the appeal of accompliation of the appeal of accompliation of the appeal of accompliation of the appeal of the appea

redictions of the goal in the area of cattle raising eight to be realized to painting, cattle and positive productivity and the growth of their stock, the efficient use of level, a significant improvement in cattle care and treating specifications, perfection of breeding work, mechanisation of indeed encountry processes, and the introduction of progressive technology

The constraint description of ford production is a decisive condition for a constraint the growth cate in producing most, with, and other products of livestore raining. In 1984, it is planned to increase the products on all hinds of took by more than 30 million tone of feed on its compared to 1974. The case, values of concentrated tooks to believe and convenience from year, receives will grow significantly. About 15 million tone were of them will be supplied for cattle faining needs than were allotted to 1974.

The totional use of feed to especially significant during the winteringoper of cattle the form of the Kasakh, Reidavian, Latvian, Armenian,
and hetenian Shif's, more feed has been layed in for the 1979-1981 cattle
wintering period as ampared with the previous wintering, Aithough
dignificantly less feed has been layed in throughout the country as a
whose, compared with last year, according to research data of the agrirultural chemical laboratories, its quality is higher. Base's existing
feed reserves at each kelkbar and souther it is necessary to utrive to
that the rations of cattle feed will be balanced to protein, carbohydrates,
and theoreties

It is now established any studies that during the intensification of afficially raining and the conversion of the field to industrial technical, the significance of the pheaphorous supply problem increases.

Lattic need to receive pheaphoriferous mineral supplements in sufficient amount to diminate cheaphorous deficiency and improve ratios quality in the winter harmond period.

in 100 , the continuing conversion of the brail to an industrial fraction of further despends of production specialization and concentration, increasing officients based on the introduction of highly productive equipment and progressive technology, and realizing interfare competationally remain one of the important trends in developing cattle raising.

For some time now, the introduction of the production line shop every of organizing the production of the production line shop every description according to the example of L'evenses object. Here than 1,000 daily-cattle farms have been converted to the new everter of operation.

If do to lor top (to find) common of exclanation and combined on the complete of the development of the complete of the comple

in the second employed form, 211 million bead of the second employed and 12 million count, he willow of the second of the second plan. It will be reputation by an interest of the second of the secon

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derives at the Ci CPSI Pieces, 3 July 1978. Account of the USSR's Agricus of the Lenen, educated 6 July 1978. Recount of the Lenen, educated 6 July 1978. Recount, Politicate, 1978, p. 16

content if it research, and ascolerate the introduction sail the achieve-

of spulated for 1980 to the plan is expansion of the scope for introducing engressive core production technology in an area of a william bectares that was 180,000 tectares in 1979), the planting of up to 41 million tectares of new varieties and hybrids of grain crops; increasing to consider tops the particular of rescenting by machines; and over products of agriculture and cattle raising; New materials and technical resources will be introduced in land reclamation construction which will make it research to reduce water loss and to consider it core economically.

in 1986, the area of irrigated intensive orchards will grow and the stock of hyperid maps and poultry will increase, which will have a substantial influence on increasing their productivity.

Along with further increasing production, special attention ought to be along to quality of agricultural produce. The November (1979) Plense of the CT CPSN pointed out the importance of this problem. In an appearance at the Plense, Comrade L. 1. Brezhnev emphasized. "Planned raison as well as prices ought to determine quality to a far greater degree.

to the connection, it is necessary to intensify organizational work in talkboxes and southwest for initial preparation of agricultural produce and its overage.

Along with fundamental agricultural production, the process of industrial antivities in precessing perichable agricultural produce (vegetables, fulls, grapes), production of mised feeds, and so forth, has become over more widely developed in recent years on kolkhozes, sovihozes, and intercare enterprises.

The industrial activities of large are closely connected with developing the basis branches of agriculture and they actively propers a reduction of agriculturas produce losses and an increase in the output of popular concumption goods

In developing agriculture, eignificant material and financial resources are invested, just as always. Therefore, using thes with the greatest possible return to a fundamental goal of agricultural organs, kolkhozes, and ownthoses. The careful and economical use of all material and technical recourses and all the energys potential the agricultural branch depends in many respects on the level of economic work in the village and some intent etreagthering of cost occuunting on kolkhozes and gurkhozes.

The occial policy of the party and boxiet government," cald Courade ... Brestmov. '1 to bring the peasant's labor and a worker's labor

and to fater the culture of rotal life.

to imposed at the magazinest we oping of the village franctive ties of quarters, echanic, child preached establishments, implicate, clubs, quads, etc., which will tempore the living conditions of kelkhoenias and souther workers tapital investments / percent greater than to 1979 are being allocated forcers into man. Further great to agricultural wages is being contemplated for implementation. Average monthly carnings on southerness will prompt to 191 rubbes, and on believes to 110 rubbes.

Regulating the problems specified by the plan requires further development of contains competition, which each to be channeled towards procuring and putting into action all the reserves of agricultural production.

Competition region to be directed towards introducing the achievements

If the action and technical progress into production and, or this basis,

1982 Attainment of high and results.

end one latter and all agricultural organs, believe and evolves amagers on one latter, and all agricultural indices ought to be channeled toward real plans the reconstructions of the beventor (1979) Plans of the Ci Pit and the thoses and conclusions out forth in L. | Breshnev's speech

mating the content of the ententific recat mating, conjection and correspond which are connected with
cat iteral production and while enough its intensification to to wake
twenth contribution to fulfilling and corposing the goal for 1000
cad (or the five-year plan as a whole.

"FYRI M" ladate "styr "Rolos , Ekonomika SEI SKOON Khozvavstva", 1980

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Mesers. Political. 1970. p \$71

DEPOSE OR ACRO-SCIENTIFIC CONFERENCE FOR RELOBUSING MALTIC SONE

Minns 111 SHAYA GAZETA in Russian 22 Jan 80 pp 2-1

(Article "What is in the Argenal of the Parmer")

lient As has already been reported to newspapers, on 16-17 January of this year Nines was bout to a scientific-production meeting that dealt with the subject, "Raising the Effectiveness and Benistance of Agriculture in Belstunia, Lithuania, Latvia and Batonia." It was organized by the USSS MRES. [Ministry of Agriculture] and by VASENSIA [All-Union Lenin Academy of Agricultural Sciences]

It was noted at the evering that in fulfilling the decisions of the 25th CPSI congress, of the July 1978 and the bovenber 1970 pienuse the bulkhoses and southoges of deformatia, Lithuania, Latvia and Estonia have been achieving higher and higher indicators in the production of form and onioni products be means of intensification and increasing the effectiveness of agriculture. In four years of the current five-year plan the yield of grain crops, for example, was 22.6 quintals per hectare in Belgrussia, 24.6 in Lithuania, 20.7 in Latvia and 26 in Detonia. Notable success was achieved in rateing the productivity of petatees and other crops.

production organizational-economic measures and progressive technology for farming, feed production and livestock farming. They have developed a number of highly productive varieties of agricultural crops. The entensive utilization of ocientific developments in specific conditions and the experience of londers and innovators of fields has enabled a large group of enterprises to produce large harvests even during last year, which was very uniscorable in seather conditions. Among these are the Oscaphitably Robbes of Pinnsiv Rayon, Robbins inous Gastello of Minnskly Rayon, Swellyy Put' folknow of Molodechmenskiv Rayon, Progress Kolkhoz of Grodenskiy Rayon in heloguasia, the Torvete Kolkhoz of Dobel'skiy, the Uzvara of Equality rayons to Latvia, the Barvanay of Ionishakis Rayon, the Robbes immi Smechhos of Rakversakiy Rayon in Lithuania, the Vinni Experimental-Demonstration Sovehoz immilents of Tartusskiy Rayon of Estonia and dooms of other enterprises.

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The last the it attends forming the artistical products to the income the most office and capital investment to agriculture and capital investment to agriculture and capital investment to agriculture and capital investment of agriculture and capital investment of agriculture and capital investment of agriculture and capital investment and capital investment and capital conditions to all its or and the setup.

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t come to lamation workers must more actively utilize the experse. I

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cor office town factor to raining coll fortility to the growth

the expension of production of canada are provided for this reason the expension of production of canada and increase in the cowing of clover and disalfa as respectively that confide the confidence of production intensification.

the commentant level of organic fortilizer has reached 14 tons per hectare of items and in Delorussio. This is close to scientifically-based norms. So written toos, even this does to not the limit. It is essential to reach the application of is tone of compact per nectare of piousand. For this if is necessary to procure and apply up to 80 million tone of organic softicions per year. It is especially important to increase the doagge in winter rope on to plow in more compact into the late-fall plowed fields, is done in the Baltic republics. The planning under of up to 30 percent the organic ferfilizer during the fall will significantly accelerate the completion of spring field were in a number of cases a no less important to construct the restrict to relating the quality of the compact, observing the termination call tules for its procurement, storage and application into the

complicate the continuous of the practices of the desperitative Colling of the lawer, where the tens of high-quality compost are already bying opplied to the continuous content to the lawers to be continuous and to increase the human content to the continuous to the continuous to appear to the formation to organic fertilizers to given by the together besidence of composite Rayon, the tolkhor tens Shehors of horouge colone. Rayon, the Lavet, common tellihors of Majoritahiy Rayon, the nearly tolking of increases the continuous of the files for the continuous of the

in raising the cariante and production value of organic fertilizer in raising the fertility of fields, it is committed to have each enterprise and involve, a tare plan the production volume for manure and compost and will as one of the grade we cannot tolerate an attitude toward manure and state product and tomaget, as the waste products of production or worse, as the cowage of livestock-raising complemes.

two compacted of the conference, a great resource for increasing the productivity of all crops and for raining the stability of farming to conference until sation of the ever increasing supplies of sineral critis ever, liming materials, and chemical means of plant protection.

of this action the basis questions of chemication have been worked out within a scientific framewore and are being dealt with correctly. The result of this have already been left. In 1976-1978 each kilogram of mutritive matter applied into the soil visited an increase of 5.6 illegram if grain, which is 50 kilogram more than the average for the years of the binth blue-tear Plan that by raining the effectiveness of mineral tertilizate the republic has received an additional 1.7 affice tons of fare products in grain equivalent each year

am time it to become to a signature the control of the control of

the state of the application of fact and analytic of the state of the productivity of the state of th

recent of agreemental, commical and other means available to seem former for increasing the offengith of the harvest chunist be direct meeting the not goal—increasing grain production. The 20t:

The image established the goal of increasing the grow republic to 9.5 million from with a rivid of 12 quintals per con, and to be-4, quintals by the end of the lith Five-Year Plan.

A content of the meeting, despite the fact that grain crops in the cont, it is possible to expand them. In Drectations and Committees were ever age standard weight of grains can be 1-4.5 percent higher for feeting at animal weight of grains can be 1-4.5 percent higher

marini last cost showed the utgency of further terroving the
atain limids. Taking into account that under extremmilitions on eater of a light mechanical composition, which is
for make accurate one-third of the arable lands, the crops that outler must
there are no, the conference participants recommended an increase in
time of our lands. In order to eliminate lags in the production
of rectain logues crops a recommendation was made to expans then

restriction of earlies mean a great deal Under untavorable modified to sell of earlies of them; determined by the planticity, to be and potential productivity. It is the task of breeders to entitle of that respond well to the application of large doses of estimate, that are restrant to a complex of diseases and pests, that are it less as that are estimated will nave to supply production of agreed that the life the testing of the first two testings of a life the testion have to supply production of agree that two life to the testion between the life in the two less than a testion of the first two less than a testion of the first two. The first two life winter wheat, but the barkey, the to for outs, one I'm T for Jupine

in the participant indicated a option of other organizational and indicated measures. It is executed to give more attention to send distinct a mineral to the control of the control of participant of other openial participants of participants

in the marking, the effectiveness of farming to directly related to the large of technology. At all levels of lighting for the harvest enganization of field work in the determining factor. But in this still many basis shortsomings, great errors and violations.

It is the violation of the sawing echedule, the untimely care of the elegencial harvestin, operations the republic underproduces a large land of it grain, notations, that, sugar bests and lead crops. We must not conder one of the experience of breateness obtains and capacitally of anisons. Rayon on the introduction of employ harvest-transport detachment or experience. Lithuania is free procurement according to the transport detachment of the harvest of the practices of many rayons in casting an using wide and combined units, in improving standard of empty and contains.

ic in the control of the results of agricultural scientific settles in the results one grown tronger. At the same time the cities in the results one grown tronger. At the same time the cities in the results, testing stations are experimental bases does not come introduced to requirement. I great deal remains to be done to make the cities of the control of the cont

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#### BRIEFS

the time of the tens profestio-washington, to pebruary-oursups of asserte to farmers are again beginning to arrive in Washington, as they did I not ago. The tarmers intend to make a feedbate protest against the ... commission to agricultural policy. A grave blow was inflicted on Ameriis termera, especially those who specialize in grain production, by the assistant White House decision to restrict grain exports to the Soviet Union. This was incusage today by farmers interviewed by CBS tolevision. Why warm we may for the administration's decision and make sacrifices alone firmer free interede legitimately asked. When it curtailed grain de-It, .... to the Seviet Union the government promised to make good the recent leasen, but that turned out to be another deception. The adminisall and only covering the losses of big companies which had brought up the grate consignments, while the farmers remain practically without some asa' too. The grain opeculators have taken advantage of this and are new buying up grain from the tarmers at giveavay prices. [Ve. Yegorov] The expetal | Honorow SEL'NKAYA ZHIZN' in Russian 17 Feb 80 p 3 LD

1001.

## MITTINDS FOR REDUCING AGRICULTURAL LOSSES

Moscow EKOMENIKA SEL SKOOD KHUZYAYSTVA to Nussian No 1, Jan 80 pp 9-16

[Attitle by F.K. Knyazev, first secretary of the Eurgan Obion of the CPEU: "Blocking All Avenues of Louses"]

First | Rurganshavo Oblast to a great supplier of agricultural products. The kolkhozen and southozen here have been assigned 4.5 million bectares of agricultural lands. Every tarm has more than 8,000 hectares of plowed fields; which includes more than 5,000 hectares of land planted with grain crops. In carrying out the agricultural policy of the CFSU, the agricultural morters are constantly increasing the rates of production. Thus, in the years 1976-1978 the average yearly volume of gross agricultural production was increased by 20 percent in comparison with the same production in the years 1971-1975. In 1978 the kolkhozes harvested an average of 18.9 quintals of grain per bectare. The gross yield amounted to 3.5 million tons of grain. The state was could 1,516,000 tons of grain; 153,000 tons of most; 520,000 tons of milk; 179 million eggs and 3,206,000 tons of wool.

having extende, the socialist competition for the achievement of ever higher goals, the agricultural workers obligated themselves in the fourth year of the current 5-vear plan to harvest grain crops at the rate of 19 to 20 quintals of grain per hectare, to increase the volume of production and the sale of meat to the state by 13 percent and to provide for significant growth in the production and sale to the state of other livestork products.

The oblast and ravon party committees, the primary party organizations, are doing everything to provide for steady development in agricultural production and to bring unused reserves into action. Moreover, the attention of the party and soviet organs and of the managers and specialists of the agricultural, procurement, transport and processing enterprises is directed toward strengthening the battle against poor management and negligence and toward preventing product losses both in the production stage and during transportation, processing and storage.

in their efforts to raise production efficiency, the party organizations depend first and foremest on the experience and authority of the communists, the leading workers and innovators of production. This is how the machine

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Through the factor to plant! Through the fatter to the chiest the matter to fact competition to strength to the third year under the matter to make the matter to may brigate it to consider the matter to make the matter to make the constitution of the constitution of

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nor- in the production of grain still enter and at times are easy example, a great difference between biological deposition from the product of the product

the contitues. The tone of only quintal of grain per bectare during the

count to when the could fortility to higher, when the preceding crop was better continuous the unimer weather, anditions are more favorable. And this is all too to the fact that a significant part of the spring wheat fields are planted to continuously are transfer of the spring wheat fields are planted to continuously of taking full advantage of high soil for-

elf the ideal enditions of the Iransoral area, with videspread implementation of the endition of the Iransoral area, with videspread implementation of the endition of the Iransoral production, local varieties of the intensive type are needed, varieties which are highly production are received to ladging and drought. The breaders of the Eurgan Signal its outh varieties

on liber of bidlogical actions to V.V. Listch and the workers of the Shadrings in the states by T.E. Nal'topy created a unique genotype wheat with a period wheat, bhadrings of the 60 quintals per bectare. A many sirial allocation wheat, bhadrings of the 60 quintals per bectare. A many sirial allocation wheat, bhadrings over allocated which exceeds to the years of the variety grown in the object by 3 to quintals. In substitute, plants of this variety are resistant to locating and drought. This variety has been regionalized in the Eurgenskaya Object since 1979. The new varieties of wheat, burganskaya, Vers and Transural, are undergoing state and or admitted the testing. Other varieties of grain crops of the intensive type are may widely introduced on farms in the object.

hreatin, onter tor opting wheat was treated. A program for breed to with the region 1991 was worked out which was approved by the Addentific to the tentific and Nothedological Management of Breeding Centers to greelding the All Caten Academs of Agricultural Aciences iment

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the introduction of one, stought and datage restatant varieties of apring worst and ther grain rope of the intensive type will permit the kowkhoses an sevenoses of the obside to produce at least a additional 400,000 tensionals per year "brough increased crop violds and reduced leases.

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are 600 mechanise crain tenning stations in operation on the kulkhozes and occurrence with a total daily capacity of 140,000 tens of processed grain.

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tent production int an independent branch. On many holkhoren and covidates possible or or or or being reason which cancellate the land, the feed to relation, the equipment for the production, processing and preparation of the land the processing enterprises and other and lattice. Specialists to barge of the copyler Last year against an organization for feed property in the further which have demonstrated great advantages, made possible of emiliant the quality of the feed in the volume of production and, most important.

reponditures per unit a production, which we initiated several vecto and reduction in their reponditures per unit a production, which we initiated several vecto are not to reduct the positive country to an exercise of the positive country to all evenue of uncommunity one of feed to meet important thing in country to in power was an the trust large under the mette "For Efficient and one of any will the payment of prime to the best forms. During the notific to an increase of i quintal of its wright of positive paints by a percent. In the period 1976-1971 two expenditures were reduced again by a and percent respectively not the law easest in the period 1976-1973, the trust large were able to the positive of the law easest in the period 1976-1979. The trust large were able to the positive of the law easest in the period 1976-1979, the trust large were able to the positive of the law easest in the period 1976-1979.

the of the autopoints the poultry farmers and in their places for 1979 was t reduce the expenditure of teed in the production of eggs and in in treatments to live weight of poultry. The workers of other branches of live stock broading are following their example:

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to the tent to the object to raise production efficient, and to laws on the last to product to, however, not all resources have not been tree to sample on portion of agricultural and itseature production to least during its production, processing and storage.

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In our finatural as it grant ploud wer the years resulted from variation in annual raintals. Deviations from the norm were & percent or o re-

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the commodition, we would like to make come research findings.
The commission were conducted in a dry more of dark storages and in a subsect Airginia. The hiew layer had a common present organic matter and cultivient water conscity. Ever many years, the average annual rainfall was 5% on with variations from 200-400 mg.

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orvat a classiance that the amount is available coll water to make at which are a superior farms. Good for the same and the same abtained when the call consture the same and was greater than 40 cm. At our times, seving at evening the same about the same areas required.

mousture which, hosefully, will assure stoody narvests on dry lands even in the driest years.

in thi connection, our estentiate should may attention to emerimente done on any tames in canada where specialists believe that it is better to get a mair nurvest one out of two years rather than right drop failure every year. They after the grain error acreage depending on soluture conditions. In a dry spring, their seeding rate in lover and large acreages are left under clean failow. But when apring soluture supplies are good, the fields that were designated to failure are sown with apring group.

th our countries, such an approach to using the contarid lamb of Oskskaya thiast would allow maximum utilization of the agronomic and seteorological conditions every year and significantly raise the productivity of coch nectare.

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THE LOW AND COMPPOSE TECHNOLOGY

BERRED CROPS PROTECTED FROM THE ASK

Mongrow WITTERAYA ROSSIYA in Nuestan 19 Jan 80 ; 1

Act 1 to b. U. Fedorov, special correspondent in Krasnodarski's Kray. "Air plane Over a howless Field"]

Facerptic theat and barley somm last fall in the Kuban-the leading crope that the translation of unfortunately, spending the winter without their "warm tannet, we drove through the fields of a number of tarms in the Timeshovent, Bivukhovotskii, Primorako-Ahhtarakty, and Unt'-Labinskiv regions, but see members even a speck of white.

there has been no snow-and there is still none. All and the mercy from the elements' No, indifference is not a characteristic line has no largers, who are recognized masters of the highest harvesting properties in the country. And, indeed, the solution was arrived at collectively conduct winter feeding of crops with mineral fertilizers on a line one true.

the term, "teeding, from a scientific standpoint, in perhaps not very appropriate, indeed, at this time the winter crops are in a state of demancy, then are deeping. This means they are not able to assimilate fertilizer that it is a state of demancy. This means they are not able to assimilate fertilizer that it is a state of the matter lies closwhere on a sense as the sum rises above the horizon, it warms the soil, immediately it can invisible to the even begins—the slow movement of moisture from the surface level of the soil downward. This dissolves and conveys to the state application of mineral fertilizer. The crops, gaining strength, it is progress in growth; the harvest will be a tich one. It would appear that winter feeding justifies Itself quite fully, both from an agronomic and the or occounter point of view.

imenting of winter ground. The test that the fields are free of sum, indeed makes in convenient for the pilots of the agricultural aviation service, the green squares of winter grain very clearly stand out against the black background of fall-plowed helds. This premius precisely "aimed" fertilizer application with no mistakes.

The later are satisfied with the job done by the aviators, who have already applied fertilizer over an area exceeding a half-aillion hectares.

The following example to significant. During our conversation with the head of a section of the second Krasnodar association aviation detachment, A. K. Vanku, the phone rang. It was the head of the Veyskiy regional agricultural production control, A. K. Zemlyakov. After expressing his thanks for the autotanding work of the aviators, he requested that two more aircraft, in addition to the six operating on farms of the region, be dispatched how, that is genuine concern about the winter crops'

Right now, in January, if the winter grain crops are earefully examined, the rows of young seedlings become clearly visible.

Farme of the Ust-Labinskiy region have a reputation in the Kuban for uniformly high harvest yields of grain. They have measurably exceeded the plan for the fourth year of the Five-Year Plan as regards production and said to the state of grains, including hard wheat. According to the first mecrotary of the party raykon, N. A. Artvushchenko, the fertilizing of winter crops occupies a prominent position in the total range of agrotechnical methods for obtaining high yields in grain harvesting. By the middle of January, crops over an area of 20,000 hectares had already received this type of feeding.

Quite unusual operational information for winter time is reaching the Krasnodarskip party kray committee these days concerning the course of field
operations—in its entirety, three columns: "Plan for Feeding Winter Crops";
Feedings Applied", and "Including with Aircraft." According to the latest
information, mineral fertilizers have already been applied to an area in
excess of 700,000 bectares.

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the concept among that aroun farmers to much greater and regre Be amon of the delayed harvesting in the fall, this the last are clowing of an estimate allian bectares which could and the state of the leving to of her title of Pare vertero realise that success will follow the and the seed of the seed of the seed of the properties had agricult ording. The preparation of equipment for oping to pre-In It is even tal attention to the kelkhosee and sevenoses of Combin the common work in most places began a month and half later the late harvest, the fallback from the pace of the distributed the termination of the percent. And own, ever illiminated, begins to not fat off. Fore wessers must dea pulsaly put their equipment in good working order to the creation of the object' are called on to see to the creat to be exact muditions for the maintenance and operation of agett I ca bind of equipment (Excepts) | Moorey PRAVPA in Russian II had drawn 11 April .

The state of the deserts are allies of the farmers in the first there are allies of the farmers in the first there is confirmed this very deduction will be a continued the confirmed this very deduction will be a continued the confirmed fields and orchards and helps to evald salification of the soil. The in that the sends, like a giant opensu, absorb the crop of the process, dissolves the salt. As a result of the fields into the depths the chero it joins size flowing sunterrangement and agricult for an accident on types and varieties of agricult industrials willet, alight, corn, tempton, so well as the corn, like alight in the fields.

Show RETENTION--Orel--The tractors are out in the winter fields of Orlov-skaya Oblast'. Farmers have embarked on a massive program of snow retention. To do this, they employ large rollers which press down the snow.

[Text] [Mascow TRUD in Russian 20 Jan 80 p 1] 9481

compost PROVISION--Ul'yanevsk, (TASS)--in Maynekiy Rayon, hauling of organic fertilizers is provided by the fourth interfarm agroproduction detachment. Fifty tractors, half of which are "Korovians," as well as dozens of bull-dozens, lift-trucks, and dump-trucks have been contributed by kolkhozos and sowkhozes for use by the detachment. It has delivered to the fields up to 10,000 tons of compost daily--much more than its quota called for. [Text] | Moscow SEL'SKAYA ZN'ZN' in Russian 13 Jan 80 p 1 | 9481

SEED SCONOMY-Kurgan-Kolkhozes and sowkhozes of Safakulevskiy Rayon were the first in their oblast' to get all of their seed in proper condition. Sinety percent of it meets the requirements of first and second class sowing scandards. Nuch more seed of heavy-bearing, regional strains of wheat, harley, and oats has been saved by Transural grain producers for this year's sowing than was saved last year. For the first time, half of the wheat fields will be sown to new, highly productive varieties bred in the Novosibirsk and Kurgan regions. [Test] [Moscow SEL'SKAYA ZHIZN' in Russian 13 Jan 80 p 1] 9481

PREPARATIONS FOR RICE PRODUCTION--Astrakham', (TASS)--This year, the area under rice on farms of Astrakhamakaya Oblast' will be expanded by 2,000 hectares. The valuable crop will occupy 48,000 hectares of productive flood plain in the Volga-Akhtyubinak valley. In the final year of the Five-Year Plan, the rice growers are committee to sell to the state no less than 115,000 tons of grain. Maintenance engineers have already prepared all sowing and till equipment for spring operations. Land reclamation experts are extending a great deal of assistance to the rice growers. Hundreds of mechanized detachments are renovating irrigation networks: they are putting canals in working order, repairing hydrotechnical equipment and pumping stations. [Text] [Moscow SEL'SKAYA ZHIZN' in Russian 19 Jan 80 p 1] 9481

EXPANSION OF 3PRING SOWING--Saratov, (TASS)--Farmers have completed laying-in of seed for the spring sowing of five million bectares in Saratovskava Oblast'. This year, grain fields will be sown primarily with highly productive, locally bred seed. A more reliable spring wheat, Saratovskava-46, in replacing the well-known varieties, Saratovskava-38 and Saratovskava-36. The sowing of this variety has expanded two-fold. Spring crops of the hard wheat, Krasnokutok-6, will also be larger than last year. [Text] [Noscov SEL'SKAVA ZNIZN' in Russian 19 Jan 80 p 1] 9481

IMPROVED SEED-Donetsk, 19 Jan, (TASS) -- Farmers of the oblast' have completed the cleaning of sunflower seed a month earlier than last year. Farms have begun treatment of seeding materials. Model seed storage facilities are being set up everywhere. Powerful heatgenerating units and drying apparatus are providing the necessary microclimate in storehouses. A special seed

treatment which increases their germination vigor and facilitates string in being employed. As past experience shows, these "heavy-weight" seeds increase yields at harvest up to three quintals per hectare. 'Test' [Moscow SEL' SKAVA ZKIZN' in Russian 20 Jan 80 p 1] 9481

PENTILIZER APPLICATIONS IN OSETIVA-Ordehonikidee, 19 Jan, (TASS)-Crop production detachments are at work in the fields of northern Osetiya. For this year's harvest, about 70,000 tons of organic fertilizer was brought int part of the winter crop was fed with mineral fertilizers. In an attempt to intrease crop productivity, the farms are employing some powerful technology. The machinery is operating in large groups which makes for a rapid pace in mineral fertilizer haulage. [Text] [Moscow SEL'SKAYA ZHIZN' in Russian 20 Jan p 1]

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USAN REPORT: USA: ECONOMICS, POLITICS, IDEOLOGY\*

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WORLDWIDE REPORT: Telecommunications Policy, Research and Development

<sup>\*</sup>Cover-To-cover

DATERIA MARCH 25-80